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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/692,748	10/19/2000	M. Chapman Findlay III	35512-00056	7074
24318 75	90 02/07/2006		EXAMINER	
Mitchell, Silberberg & Knupp, LLP 11377 West Olympic Boulevard			NGUYEN, NGA B	
Los Angeles, CA 90064			ART UNIT	PAPER NUMBER
			3628	

DATE MAILED: 02/07/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	09/692,748	FINDLAY ET AL.				
Office Action Summary	Examiner	Art Unit				
	Nga B. Nguyen	3628				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 19 Oc	Responsive to communication(s) filed on 19 October 2005.					
· · · · · · · · · · · · · · · · · · ·	action is non-final.					
3) Since this application is in condition for allowan	'					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
 4) ☐ Claim(s) 1-35 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-35 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement. 						
Application Papers						
9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the confidence of Replacement drawing sheet(s) including the correction of the confidence of	epted or b) objected to by the Edrawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)/Mail Da					

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DETAILED ACTION

1. This Office Action is the answer to the Appeal Brief filed on November 19, 2005, which paper has been placed of record in the file.

2. Claims 1-35 are pending in this application.

Response to Arguments/Amendment

- 3. Applicant's request for reconsideration of the finality of the rejection of the last Office action is persuasive and, therefore, the finality of that action is withdrawn.
- 4. Applicant's arguments with respect to claims 1-35 have been considered but are moot in view of new ground of rejection.

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 1-35 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gatto, U.S. Patent No. 6,681,211.

Regarding to claim 1, Gatto discloses a method for forecasting the direction in which the price of an asset will move, the method comprising:

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(a) identifying a group of exogenous variables that are likely to influence observed prices of an asset (column 19, lines 10-48, identifying the factors for a model);

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- (b) utilizing a computer to execute computer-executable process steps (column 8, lines 3-40 and figure 1, the server system 160 is programmed with software that implements the various features and function to process historical information) that include steps to:
- (i) process historical data for value of the exogenous variables and historical data for the observed prices of the asset over a time period to obtain a formula for calculating price estimates for the asset as a function of the exogenous variables (column 11, lines 10-52, the user can view the historical performance of a selected security by using The History/Chart module, and then the user can select a model and view estimates generated by applying the model at any point in time prior to the period report date);
- (ii) calculate the formula using an input set of observed values for the exogenous variable at given point in time, so as to obtain a price estimate for the asset at the given point in time (column 11, line 62-column 12, line 37; column 24, lines 17-27, the user select factors to include in a model, the user can run a model against the historical database, the server applies the factors to the estimates specified by the user and produces an estimate base on the model, thus the created model is calculated using the factors inputted by the user);
- (iii) determine a similarity measure by comparing the price estimate from the asset at the given point in time to the observed price for the asset at the given point

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in time (column 11, lines 45-52, column 12, lines 37-45, column 26, lines 30-35, the user can compares the results of the selected model with selected analysts, consensus and other estimates at the given point in time); and

(c) forecasting a direction in which the observed price of the asset will move based on the similarity measure (column 18, lines 55-60, the model is applied to the estimates to produce the enhanced composite estimate, then comparing the enhanced composite estimate with the consensus, e.g. the enhanced composite estimate differs from the consensus by 0.11 or nearly 10%, this signals that the stock is undervalued, thus by comparing the enhanced composite estimate with the consensus, the user can forecast the direction in which the observed price of the stock will move).

Even if Gatto uses an entirely different approach than that of the present invention, the series of steps recited in the claims does not distinguish over Gatto.

Therefore, it would have been obvious to one with ordinary skill in the art at the time the invention was made to apply the series of steps taught by Gatto's above, in the different approach of the present invention, for the purpose of providing more efficiency for forecasting the direction in which the price of an asset will move.

Regarding to claim 2, Gatto discloses the asset is a stock issued by a company doing business in a particular industry, and wherein a substantial number of the exogenous variables reflect prices of stocks issued by other companies that are also doing business in the particular industry (column 9, lines 53-63 and column 10, lines 20-52).

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Regarding to claim 3, Gatto discloses the exogenous variables include macroeconomic variables (column 22, lines 34-52; Estimate Age factor).

Regarding to claim 4, Gatto discloses at least some of the exogenous variables are identified in step (a) by performing stepwise regression over a number of potential exogenous variables and selecting the potential exogenous variables that provide a best fit (column 26, lines 30-35).

Regarding to claim 5, Gatto discloses at least some of the exogenous variables are identified in step (a) by modeling over a number of potential exogenous variables and selecting a set of the potential exogenous variables that tend to maximize predictive power of the modeling (column 19, lines 10-48).

Regarding to claim 6, Gatto discloses at least some of the exogenous variables are identified in step (a) by performing a statistical clustering technique (column 20, lines 8-46).

Regarding to claims 7-8, Gatto discloses the given point in time is after the time period; the given point in time is approximately 30 days after the time period ends (column 12, lines 1-37).

Regarding to claim 9, Gatto discloses the time period is determined using a stepwise approach (column 12, lines 1-37).

Regarding to claim 10, Gatto discloses the asset comprises a share of stock issued by a corporation, and wherein the time period is determined base on changes affecting the corporation (column 10, lines 20-52).

Regarding to claim 11, Gatto discloses duration of the time period is selected so as to maximize a predictive power of the formula over the time period (column 12, lines 1-37).

Regarding to claim 12, Gatto discloses the processing in step (i) comprises performing a statistical regression technique (column 11, lines 10-52).

Regarding to claim 13, Gatto discloses the processing in step (i) comprises performing a neural network technique (column 8, lines 3-40).

Regarding to claim 14, Gatto discloses the step (iii) comprises a step of (iii-1) determining a difference between the price estimate for the asset at the given point in time and the observed price for the asset at the given point in time (column 12, lines 37-53).

Regarding to claim 15, Gatto discloses the step (iii) further comprises a step of (iii-2) calculating a ratio of the difference determined in sep (iii-1) to the price estimate for the asset at the given point in time (column 12, lines 37-53).

Regarding to claim 16, Gatto discloses the step (iii) comprise determining a ratio of the price estimate for the asset at the given point in time to the observed price for the asset at the given point in time (column 12, lines 37-53).

Regarding to claim 17, Gatto discloses wherein the computer-executable process steps further include a step to: (iv) determine a measure of accuracy variability, over the time period, of the price estimated for the asset calculated using the formula (column 20, line 47-column 21, line 13).

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Regarding to claim 18, Gatto discloses wherein the computer-executable process steps further include a step to: (v) determine a measure of a statistical significance of the similarity measure by comparing the similarity measure to the measure of accuracy variability (column 23, lines 8-67).

Regarding to claim 19, Gatto discloses step (v) comprises calculating a ratio of the similarity measure to the measure of accuracy variability (column 21, lines 3-10).

Regarding to claim 20, Gatto discloses the measure of accuracy variability comprises a standard error of the formula (column 20, lines 48-67 and columns 33-34). Gatto does not teach the standard error of the formula being a square root of an estimate of a variance of errors of the formula. However, calculating the standard error of a formula by a square root of an estimate of a variance of errors is well known in determining the standard error of a formula. Therefore, it would have been obvious to modify Gatto's to include the feature above for the purpose of providing more efficiency for determining the accuracy of a formula.

Regarding to claim 21, Gatto discloses the step (i) comprises steps to: (i-1) obtain a first formula for calculating price estimates for the asset as a function of macroeconomic variables; (i-2) obtain a second formula for calculating price estimates for the asset as a function of prices of other assets that are related to the asset; and (i-3) combine estimates from the first formula and the second formula to obtain the formula (column 24, lines 28-40).

Regarding to claim 22, Gatto discloses a step of using price estimates from the first formula to remove macroeconomic effects from price estimates calculated using the second formula (column 24, lines 40-55).

Regarding to claim 23, Gatto discloses wherein the computer-executable process steps further include a step to: (iv) repeating steps (ii) and (iii) for plural points in time after the time period ends in order to obtain plural similarity measures, and wherein the forecasting of step (c) is based on the plural similarity measures (column 24, lines 40-55).

Regarding to claim 24, Gatto discloses wherein the computer-executable process steps further include a step to: (v) calculating a central tendency of the plural similarity measures, and wherein the forecasting of step (c) is based on the central tendency (column 15, lines 10-62).

Regarding to claim 25, Gatto discloses wherein the computer-executable process steps further include a step to: (v) calculate a weighed average of the plural similarity measures, and wherein the forecasting of step (c) is based on the weighed average (column 23, lines 8-22).

Regarding to claim 26, Gatto discloses wherein the computer-executable process steps further include a step to: (iv) repeating steps (i)-(iii) using different time periods, and wherein the forecasting in step (c) is based on the similarity measures determined by sing the different time periods (column 22, lines 4-33).

Regarding to claim 27, Gatto discloses the different time periods have approximately a same duration (column 22, lines 4-33).

Regarding to claim 28, Gatto discloses the different time periods include a time period ending approximately 30 days prior to the given point in time and a time period ending approximately 90 days prior to the given point in time (column 22, lines 4-33).

Regarding to claim 29, Gatto discloses wherein the computer-executable process steps further include a step to: (v) calculating a ratio of the similarity measure determined by using one of the time periods to the similarity measure determined by using an other of the time periods (column 20, line 59-column 21, line 21).

Regarding to claim 30, Gatto discloses the exogenous variables include prices of other assets that are similar to the asset (column 10, lines 19-52).

Claim 31 is written in means that parallel the limitations found in claim 1 above, therefore, is rejected by the same rationale.

Claim 32 is written in computer-readable medium that parallel the limitations found in claim 1 above, therefore, is rejected by the same rationale.

Regarding to claims 33-35, Gatto discloses wherein step (c) is performed by evaluating the similarity measure as a measurement of changes due to factors that are not accounted for by the exogenous variables (column 23, lines 1-67, see the adjustment factors).

Conclusion

- 7. Claims 1-35 are rejected.
- 8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to examiner Nga B. Nguyen whose telephone number is

(571) 272-6796. The examiner can normally be reached on Monday-Thursday from 9:00AM-6:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hyung S. Sough can be reached on (571) 272-6799.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (571) 272-3600.

9. Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

C/o Technology Center 3600

Washington, DC 20231

Or faxed to:

(571) 273-8300 (for formal communication intended for entry),

or

(571) 273-0325 (for informal or draft communication, please label "PROPOSED" or "DRAFT").

Hand-delivered responses should be brought to Knox building, 501 Dulany Street, Alexandria, VA, First Floor (Receptionist).

Nga B. Nguyen

January 18, 2006